

06-13-06

PATENT

Attorney Docket No. AMBER-06797



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Kenneth J. Rothschild *et al.*

Serial No.: 10/049,332

Filed: 02/11/02

Entitled: **Methods For The Detection, Analysis And Isolation
Of Nascent Proteins**

Group No.: 1636

Examiner: Katcheves, K.

**INFORMATION DISCLOSURE
STATEMENT TRANSMITTAL**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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Dated: June 12, 2006

By: Christopher J. Collins

Christopher J. Collins

Sir or Madam:

Enclosed please find an Information Disclosure Statement and Form PTO-1449, including copies of the references contained thereon, for filing in the U.S. Patent and Trademark Office.

A check for \$180.00 is also enclosed pursuant to 37 C.F.R. § 1.17(p) for filing this Information Disclosure Statement after three months as set forth in 37 C.F.R. § 1.97(c).

The Commissioner is hereby authorized to charge any additional fee or credit overpayment to our Deposit Account No. 08-1290. **An originally executed duplicate of this transmittal is enclosed for this purpose.**

Dated: June 12, 2006

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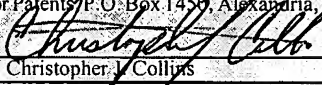


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Dated: <u>June 12, 2006</u>	By: <u></u> Christopher V. Collins

Sir or Madam:

The citations listed below, copies attached, may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. §§ 1.56 and 1.97. The Examiner is requested to make these citations of official record in this application.

The following printed publications are referred to in the body of the specification:

- U.S. Pat. No. 4,683,195 to Mullis *et al.*;
- U.S. Pat. No. 4,774,339 to Haugland *et al.*;
- U.S. Pat. No. 5,069,769 to Fujimiya *et al.*;
- U.S. Pat. No. 5,091,328 to Miller;
- U.S. Pat. No. 5,137,609 to Manian *et al.*;
- U.S. Pat. No. 5,187,288 to Kang *et al.*;
- U.S. Pat. No. 5,190,632 to Fujimiya *et al.*;
- U.S. Pat. No. 5,248,782 to Haugland *et al.*;
- U.S. Pat. No. 5,274,113 to Kang *et al.*;
- U.S. Pat. No. 5,433,896 to Kang *et al.*;
- U.S. Pat. No. 5,451,663 to Kang *et al.*;
- U.S. Pat. No. 5,643,722 to Rothschild *et al.*;

- U.S. Pat. No. 5,654,150 to King *et al.*¹;
- U.S. Pat. No. 5,783,397 to Hughes *et al.*;
- PCT WO90/05785 to Schultz;
- Allen *et al.*, *Gel Electrophoresis and Isoelectric Focusing of Proteins*, Walter de Gruyter, New York 1984, pp.17-62;
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- Happ *et al.*, "New Approach to the Synthesis of 2'(3')-O-Aminoacyl Oligoribonucleotides," *J. Org. Chem.* 52:5387-91 (1987);
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- Heckler *et al.*, "T4 RNA Ligase Mediated Preparation of Novel "Chemically Misacylated" tRNA^{Phe}s," *Biochemistry* 23:1468-73 (1984);

¹ This Patent was incorrectly cited as U.S. Patent 565,451 in the specification as filed. The correct patent number is U.S. Patent 5,654,150 issued to King *et al.*

- Hemmila, I.A., Chemical Analysis "Applications of Fluorescence in Immunoassays", (Wiley&Sons 1991) pp.138-159;
- Hudson, "Methodological Implications of Simultaneous Solid-Phases Peptide Synthesis. 1. Comparison of Different Coupling Procedures," *J. Org. Chem.* 53:617-624 (1988);
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- Odom *et al.*, "In Vitro engineering using acylderivatized tRNAs," *Methods Mol Biol.*, Vol. 77: In Protein synthesis: Methods and Protocols, PP.93-103, (Edited by R. Martin, Humana Press, Totowa, NJ.) (1998);
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- Patchornik, *et al.*, "Photosensitive Protecting Groups," *J. Am. Chem. Soc.* 92:6333-35 (1970);
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- Pillai, "Photoremovable Protecting Groups in Organic Synthesis," *Synthesis* 1-26 (1980);
- Powell *et al.*, "Molecular Diagnosis of Familial Adenomatous Polyposis," *N. Engl. J. Med.* 329:1982-87 (1993);
- Pratt, "Coupled Transcription-Translation in Prokaryotic Cell-Free System," (*Transcription and Translation*, B.D. Hames and S.J. Higgins, Editors, p. 179-209, IRL Press, Oxford, 1984);
- Promega Technical Bulletin No. 182; tRNA^{nscend}™: Non-radioactive Translation Detection System, Sept. 1993;
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- Rowan and Bodmer, "Introduction of a *myc* Reporter Taq to Improve the Quality of Mutation Detection Using the Protein Truncation Test," *Human Mutation* 9:172-176 (1997);
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- Treibs & Kreuzer, "Difluorboryl-komplexe von di- und tripyrrylmethenen," *Liebigs Ann. Chem.* 718:208-223 (1968);
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- Vecesey-Semjen *et al.*, "The Staphylococcal α -Toxin Pore Has a Flexible Conformation," *Biochemistry* 38:4296-4302 (1999);
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- Worries *et al.*, "A novel water-soluble fluorescent probe: Synthesis, luminescence and biological properties of the sodium salt of the 4-sulfonato-3,3', 5'-tetramethyl-2,2'-pyrromethen-1,1'-BF₃ complex," *Recl. Trav. Chim. PAYSBAS* 104:288 (1985); and
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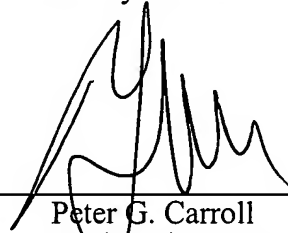
The following publications have been cited in prior related applications by the examiner which may be material to the examination of this application:

- U.S. Patent No. 5,614,386 to Metzker *et al.*.
- [wysiwyg://63/http://www.probes.com/handbook/figures/0103.html](http://63/http://www.probes.com/handbook/figures/0103.html) (Molecular Probes, Inc., Eugene, OR internet site)

² We have been unable to obtain this reference, if the examiner request a copy we will seek to obtain it.

This Information Disclosure Statement under 37 C.F.R. §§ 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Dated: June 12, 2006



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FORM PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No.: AMBER-06797		Serial No.: 10/049,332		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets If Necessary) (37 CFR § 1.98(b))				Applicant: Kenneth J. Rothschild <i>et al.</i>				
				Filing Date: 06/21/02		Group Art Unit: 1645		
U.S. PATENT DOCUMENTS								
Examiner Initials	Class No.	Serial Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date	
	1	4,683,195	7/28/87	Mullis <i>et al.</i>	435	6	2/07/86	
	2	4,774,339	9/27/88	Haugland <i>et al.</i>	548	405	8/10/87	
	3	5,069,769	12/03/91	Fujimiya <i>et al.</i>	204	182.8	6/06/90	
	4	5,091,328	2/25/92	Miller	437	52	11/21/89	
	5	5,137,609	8/11/92	Manian <i>et al.</i>	204	180.1	1/31/92	
	6	5,187,288	2/16/93	Kang <i>et al.</i>	548	110	5/22/91	
	7	5,190,632	3/02/93	Fujimiya <i>et al.</i>	204	299 R	3/20/92	
	8	5,248,782	9/28/93	Haugland <i>et al.</i>	548	110	12/18/90	
	9	5,274,113	12/28/93	Kang <i>et al.</i>	548	405	11/01/91	
	10	5,433,896	7/18/95	Kang <i>et al.</i>	252	700	5/20/94	
	11	5,451,663	9/19/95	Kang <i>et al.</i>	530	367	4/08/93	
	12	5,643,722	7/01/97	Rothschild <i>et al.</i>	435	6	5/11/94	
	13	5,783,397	7/21/98	Hughes <i>et al.</i>	435	7.1	6/12/96	
	14	5,654,150	9/05/97	King <i>et al.</i>	435	6	6/07/95	
	15	5,614,386	3/25/97	Metzker <i>et al.</i>	435	91.1	6/23/95	
FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS								
		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
	16	WO90/05785	5/31/90	PCT			x	
OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)								
	17	Allen <i>et al.</i> , <i>Gel Electrophoresis and Isoelectric Focusing of Proteins</i> , Walter de Gruyter, New York 1984, pp. 17-62						
	18	<i>Antibodies: A Laboratory Manual</i> (E. Harlow and D. Lane, editors, Cold Spring Harbor Laboratory Press, 1988, pp. 53,72-73)						
	19	Bain <i>et al.</i> , "Site-Specific Incorporation of Nonnatural Residues during In Vitro Protein Biosynthesis with Semisynthetic Aminoacyl-tRNAs," <i>Biochemistry</i> 30:5411-21 (1991)						
	20	Bruce and Uhlenbeck, "Specific Interaction of Anticodon Loop Residues with Yeast Phenylalanyl-tRNA Synthetase," <i>Biochemistry</i> 21:3921-3926 (1982)						
	21	Current Protocol in Molecular Biology, "Synthesizing Proteins In Vitro by Transcription and Translation of Cloned Genes," (F.M. Ausubel <i>et al.</i> editors, Wiley Interscience, 1993), pp.10.76-10.77						
	22	Da Poian, A. T., <i>et al.</i> , "Kinetics of intracellular viral disassembly and processing probed by Bodipy fluorescence dequenching," <i>J Virol Methods</i> 70(1):45-58 (1998)						
	23	DiCesare <i>et al.</i> , "A High-Sensitivity Electrochemiluminescence-Based Detection System for Automated PCR Product Quantitation," <i>BioTechniques</i> 15:152-59 (1993)						
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	25	Felgner <i>et al.</i> , "Lipofection: A highly efficient, lipid-mediated DNA-transfection procedure," <i>Proc. Natl. Acad. Sci. USA</i> 84:7413-17 (1987)						
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EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

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(37 CFR § 1.98(b))				Filing Date: 06/21/02	Group Art Unit: 1645
OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)					
	29	Hemmila, I.A., Chemical Analysis "Applications of Fluorescence in Immunoassays", (Wiley&Sons 1991) pp.138-159			
	30	Hudson, "Methodological Implications of Simultaneous Solid-Phase Peptide Synthesis: 1. Comparison of Different Coupling Procedures", <i>J. Org. Chem.</i> 53:617-624 (1988)			
	31	Ishi <i>et al.</i> , "tRNA ^{Met} gene in the leader region of the <i>nusA</i> operon in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 81:409-413 (1984)			
	32	Keller, R. C., <i>et al.</i> , "Characterization of the Resonance Energy Transfer Couple Coumarin-Bodipy and its Possible Applications in Protein-Lipid Research," <i>Biochem Biophys Res Commun</i> 207(2):508-14 (1995)			
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	35	Kozak, "Point Mutations Define a Sequence Flanking the AUG Initiator Codon that Modulates Translation by Eukaryotic Ribosomes," <i>Cell</i> 44:283-292 (1986)			
	36	Krieg <i>et al.</i> , "Photocrosslinking of the signal sequence of nascent preprolactin to the 54-kilodalton polypeptide of the signal recognition particle," <i>Proc. Natl. Acad. Sci. USA</i> 83:8604-08 (1986)			
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	52	Promega Technical Bulletin No. 182; tRNA ^{noncnd} TM: Non-radioactive Translation Detection System, Sept. 1993			
	53	Reis, R. C., <i>et al.</i> , "A novel methodology for the investigation of intracellular proteolytic processing in intact cells," <i>Eur J Cell Biol</i> 75(2), 192-7 (1998)			
	54	Rowan and Bodmer, "Introduction of a <i>myc</i> Reporter Tag to Improve the Quality of Mutation Detection Using the Protein Truncation Test," <i>Human Mutation</i> 9:172-176 (1997)			
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	59	Treibs & Kreuzer, "Difluorboryl-komplexe von di- und tripyrrylmethenen," <i>Liebigs Ann. Chem.</i> 718:208-223 (1968)			
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